## We claim:

- 1. An extending double-stent apparatus for placement in a bifurcating vessel comprising a first generally cylindrical stent having sides extending between first and second opposing ends and at least one opening being defined in a side; and a second generally cylindrical stent adapted to extend through one of said side openings of said first stent, said first and second stents each being constructed from a material which allows said stents to be expanded to conform to the shape of the subject vessel.
- 2. The stent apparatus of Claim 1 wherein said second cylindrical stent additionally comprises a proximal end and an opposing distal end, wherein the proximal end additionally comprises a flared portion, which flared portion is in contact with the edges of said first stent-side opening.
- 3. The stent apparatus of Claim 1 wherein the stent apparatus is comprised of a biologically acceptable material.
- 4. The stent apparatus of Claim 1 wherein the stents comprise a self-expanding material.
- 5. The stent apparatus of Claim 1 wherein the stents comprise a balloon-expandable material.
- 6. The stent apparatus of Claim 1 wherein at least a portion of the stents are imageable during and after insertion.
- 7. A generally cylindrical stent apparatus comprising a proximal end and a distal end,
  wherein the proximal end further comprises a flared portion for anchoring said stent apparatus
  into place within a vessel.

- 8. The stent apparatus of Claim 7 wherein the flared portion is expandable from a compressed position to a configuration extending radially, at least in part, to the longitudinal axis of the stent apparatus.
- 9. The stent apparatus of Claim 7 wherein the stent apparatus is comprised of a biologically acceptable material.
- 10. The stent apparatus of Claim 7 wherein the stent comprises a self-expanding material.
- 11. The stent apparatus of Claim 7 wherein the stents comprise a balloon-expandable material.
- 12. The stent apparatus of Claim 7 wherein at least a portion of the stent is imageable during and after insertion.
- 13. A generally cylindrical stent apparatus having sides extending between first and second opposing ends and at least one opening being defined in a stent side.
- 14. The stent apparatus of Claim 13 wherein the stent apparatus is comprised of a biologically acceptable material.
- 15. The stent apparatus of Claim 13 wherein the stent comprises a self-expanding material.
- 16. The stent apparatus of Claim 13 wherein at least a portion of the stents are imageable during and after insertion.
- 17. A method for deploying a stent apparatus into a bifurcated vessel comprising the steps of routing a first guidewire into the main vessel of a subject bifurcating vessel and extending the guidewire beyond the bifurcation point;

inserting a first generally cylindrical stent apparatus comprising at least one side opening into an area of bifurcation of the main vessel;

·aligning a side opening of the first stent apparatus with the bifurcation point of the bifurcated vessel by inserting a second guidewire and a stabilizing catheter into the first stent apparatus and into a subject branch vessel by passing the second guidewire and the stabilizing catheter through a side opening of the first stent apparatus and into the subject branch vessel; and

expanding the first cylindrical stent apparatus into contact with the walls of the main vessel.

## 18. The method of Claim 17 further comprising

inserting along the second guidewire and into the stabilizing catheter of the branch vessel a second generally cylindrical stent apparatus, comprising a distal end and an opposed proximal end and further comprising a flared portion at the proximal end, positioned so that the flared portion is within a lumen of a subject branch vessel and contacts at least part of the edge of a side opening of the first stent apparatus;

withdrawing the stabilizing catheter from the subject vessel; and
expanding the second cylindrical stent apparatus at least into contact with the walls of the
subject branch vessel.

- 19. The method of Claim 17 wherein the step of expanding the first cylindrical stent apparatus is performed by balloon catheterization.
- 20. The method of Claim 18 wherein the steps of expanding the first and second cylindrical stent apparatuses is performed by balloon catheterization.
- 21. A method for deploying a flared stent apparatus into the ostium of a vessel comprising:

inserting a guidewire through the ostium of a vessel and into the vessel,

inserting around the guidewire a generally cylindrical flared stent apparatus, the flared stent apparatus comprising a distal end and an opposed proximal end and further comprising a flared portion at the proximal end;

positioning the flared portion so that the flared portion is within the ostium of the vessel and contacts at least part of the ostium of said vessel;

dilating the flared stent apparatus at least into contact with the walls of the subject vessel; and removing the guidewire from the subject.

22. The method of Claim 21 further comprising the step of dilating the flared stent apparatus by balloon catheterization.